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L2: Entry 41 of 53

File: USPT

Nov 19, 1996

DOCUMENT-IDENTIFIER: US 5575864 A

TITLE: Method for cleaning a hard surface with an all-purpose liquid cleaning composition

Brief Summary Text (16):

In the compositions of the present invention, it has been surprisingly found that a highly concentrated cleaning system which exhibits dilutability, homogeneity in solution, excellent cleaning performance, fast evaporation, limited streaking and acceptable flash point can be prepared without using a builder by combining substantially high percentages of at least one anionic surfactant, at least one nonionic surfactant and a glycol ether solvent. The composition of the present invention also allows the end user to dilute the composition to the preferred strength from a hand-held sprayer or in a bucket application. It is noted that while the compositions of the present invention can be used in a variety of cleaning applications including laundry care, hard surface cleaning and dishwashing applications, the compositions of the present invention are most often used as an all-purpose light duty spray and wipe household hard surface cleaning composition.

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L2: Entry 24 of 53

File: USPT

Jan 30, 2001

DOCUMENT-IDENTIFIER: US 6180578 B1

TITLE: Compact cleaning agent for industrial dish washing machines

Brief Summary Text (9):

The problem addressed by the present invention was to provide highly alkaline general cleaning formulations based on alkali hydroxide, preferably potassium or sodium hydroxide and, more preferably, sodium hydroxide for textile surfaces, but preferably formulations for cleaning hard surfaces, for example crockery, and in particular institutional dishwashing detergents which would combine the advantages of powders and liquids on the one hand with the advantages of tablets and fused blocks on the other hand. In other words, the problem addressed by the present invention was to provide cleaning formulations which would show defined solubility under various conditions of use, but which on the other hand would be stable during transportation and storage and which, in addition, could be dispensed quickly, easily and accurately, would not emit any dust, could be produced without expensive machinery and could readily be packed in containers. The stirrability of the cleaning formulations during their production and their controllably variable strength during production and storage would afford major advantages and should be taken into account. To this end, the invention set out to develop a process which would enable substances lacking heat resistance to be incorporated, if necessary even at temperatures below 42.degree. C., without compromising the other solutions to be provided.

Current US Cross Reference Classification (1):

134/25.2

Current US Cross Reference Classification (2):

134/42

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L2: Entry 33 of 53

File: USPT

Nov 17, 1998

DOCUMENT-IDENTIFIER: US 5837065 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Concentrated all-purpose light duty liquid cleaning composition and method of use

Brief Summary Text (16):

In the compositions of the present invention, it has been surprisingly found that a highly concentrated cleaning system which exhibits dilutability, homogeneity in solution, excellent cleaning performance, fast evaporation, limited streaking and acceptable flash point can be prepared without using a builder by combining substantially high percentages of at least one anionic surfactant, at least one nonionic surfactant and a glycol ether solvent. The composition of the present invention also allows the end user to dilute the composition to the preferred strength from a hand-held sprayer or in a bucket application. It is noted that while the compositions of the present invention can be used in a variety of cleaning applications including laundry care, hard surface cleaning and dishwashing applications, the compositions of the present invention are most often used as an all-purpose light duty spray and wipe household hard surface cleaning composition.

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134/42

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L2: Entry 39 of 53

File: USPT

Aug 19, 1997

DOCUMENT-IDENTIFIER: US 5658867 A

TITLE: Cleaning compositions containing a crystalline builder material in selected particle size ranges for improved performance

Brief Summary Text (2):

The invention is directed to cleaning compositions which employ an inexpensive builder material with improved performance. More particularly, the invention provides compositions with a builder material having crystalline microstructures containing carbonate, calcium and at least one water-soluble cation, wherein the builder material is within selected particle size ranges for optimum performance. The builder material is especially suitable for use in cleaning compositions used in fabric laundering, bleaching, automatic or hand dishwashing, hard surface cleaning and in any other application which requires the use of a builder material to remove water hardness.

Brief Summary Text (24):

The cleaning compositions of the invention can be used in a variety of applications including but not limited to fabric laundering, fabric or surface bleaching, automatic or hand dishwashing, hard surface cleaning and any other application which requires the use of a builder material to remove water hardness.

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